



## SINOPEC Zenhai Refining & Chemical Co. Ltd

SINOPEC Zhenhai Refining & Chemical Co., Ltd. (ZRCC) is located in the port city of Ningbo, Zhejiang Province in Eastern China, one of the regions with the fastest economic growth in the Peoples Republic of China.

ZRCC is mainly engaged in the producing and sale of petroleum products, the three major products being gasoline, diesel and jet fuel. It is also the first refinery of processing volume of crude oil in China, with a comprehensive crude oil processing capacity of 14 million tons per annum (tpa). As well as one of the largest producers of high-octane unleaded gasoline, premium diesel, jet fuel, urea, paving asphalt and BTX in China. With the most advanced facilities and the largest oil berth in China's refining industry, the Company deals with the largest volume and variety of imported crude oil in China, and export to the USA, Japan, South Korea, India, Hong Kong and Taiwan. ZRCC consists of a refinery, a urea plant and 5 principal wholly owned subsidiaries, and it has equity interests in 5 principal associated companies both in China and abroad. As at December 31st 2001, the Company had a workforce of 9,600.

HERNIS Scan Systems have again been fortunate to co-operate with ZRCC, and the local Agent in

China; Tecway Int., for delivery of state of the art Visual Integrated Systems that far exceeds the more traditional Western installations. The systems are divided into several areas; The Old and New Area and the Oil Storage Zone and Jetty. The "New Area" has installed 36 camera stations of the EX285 model which is explosion proof with pan & tilt and wipe/wash facilities.

The "Old Area" has installed 22 camera stations of the EX285 model and 4 camera stations for safe area with pan & tilt.

The Oil Storage Zone and Jetty for ZRCC has installed 15 camera stations for safe area complete with all accessories.

All areas are controlled via separate HERNIS 400 Control systems fully integrated with LAN (TCP/IP) and several digital hard disk recorders. Special fibre optical video and data multiplexers have been used in order to reduce the cabling and avoid additional cost for the end-user.

HERNIS would like to thank the end-user, engineers and local Agent for the good cooperation. And also to extend their best wishes to all involved parts.

## INSIDE

### New Contracts

### Scarabeo 5

### Sedni, HERNIS Agent in Spain

### Oil, Smoke and Steam Leak Detection System

### Espen Christensen, Area Sales Manager Norway

### Australian Oil & Gas Exhibition

### Activity Plan May – June 2003



*Editor in chief:  
Tove Hardaway*

## New contracts

### HERNIS 200 system

- Nissho Iwai Deutschland / Tokyo Gas LNGC / KHI 1521
- Bergesen DY/ Daewoo Shipbuilding and Marine / H2221, H2222, H2223, H2224

### HERNIS 250 system

- Saracom Co. Ltd / Hyundai HI / Donghae-1

### HERNIS 400 system

- Hydro / Uhde GmbH / Qafco 4 fertiliser
- Saipem / Sense Technology / Scarabeo 5
- Daewoo Shipbuilding and Marine / Exmar LNG / H-2218, H-2219
- China Shipbuilding Corp. / CSBC Hno 803 / TEU Container Ship
- Maritronics / Platinum Yacht Repair /FZCO

### Crane TV

- National Oilwell Norway / BP Clair
- Resource Rig Supply / Gibraltar Key

## Scarabeo 5 moves to the Kristin gas and condensate field

Saipem, the owner of Scarabeo 5, started its activities in 1957 and is today one of the world's leading contractors providing services to the oil and gas industry - and is the sole contractor to cover all phases of the upstream operational cycle: drilling, oil and gas production, and transportation to shore. The Scarabeo 5 drilling rig was built in Italy (Genova) by Fincantieri shipyards and delivered in 1990 and has been operating on the Norwegian continental shelf (NCS) since delivery from the shipyard.

On behalf of the Kristin licensees in the Norwegian Sea, operator Statoil has entered into an agreement

with Saipem SpA for the hire of the Scarabeo 5 drilling rig for 36 months. "Scarabeo 5 has the capacity to perform both drilling and completion operations and is a good rig for Kristin," reports Bengt Rasmussen, drilling manager on Kristin. The rig however required some upgrading and a five-year class certificate before commencing drilling operations on 1 April 2003.

The pressure and temperature are both higher on the Kristin gas and condensate field than on any other field to be developed on the NCS. There has therefore been an increased focus on health, safety and the environment in the bidding process.

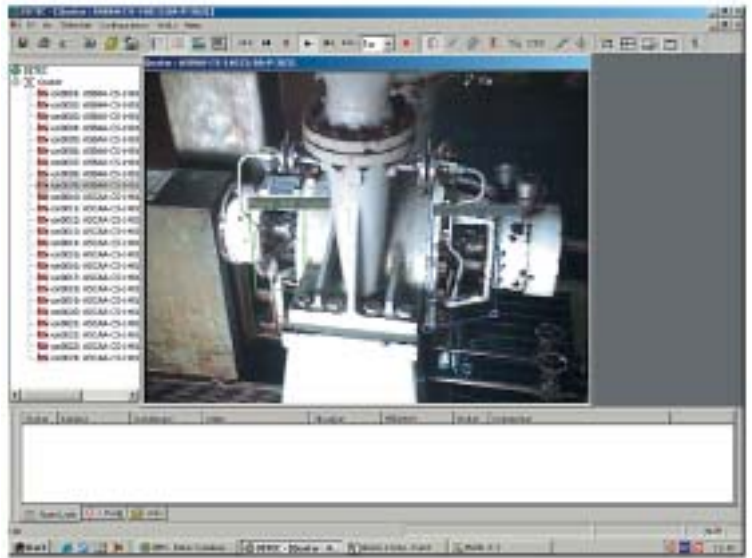
## Scarabeo 5 upgraded with highly advance CCTV system

The CCTV system installed at the Scarabeo 5 drilling rig is one of high quality and with superior functionality. As many as 10 camera stations for hazardous areas, some fixed and some with pan & tilt, has been installed at various locations at the rig, so that every critical operation can be monitored, and crucial information is being recorded. Saipem has been a good customer for HERNIS throughout the years, and through close cooperation between our companies as well as with Sense and Hydralift, Scarabeo 5 is now equipped with a 100% interfaced drilling system. The CCTV system is interfaced with the Sense X-Com Drill view Chair, allowing the operator complete control of all functions and areas on the rig.



## Oil, Smoke and Steam Leak Detection System

HERNIS is on the market with a new revolutionary system that detects oil leaks or smoke or steam leakage. The system combines remote surveillance, video motion detection and digital storage in one system. The customer must set the area of interest, and set the perspective. This reduces unwanted alarms to a minimum. When the system determines that an "activity" is irregular, it immediately displays the video sequence triggering the alarm on the computer monitor and, literally sounds an alarm notifying the person on duty. Smoke and / or oil spill will be detected and the images will be stored to harddisk. The number of pictures in pre- and post-alarm can be adjusted. The alarm image includes the date and time the alarm has triggered, camera position and a short description of the situation. The alarm information includes the pre-alarm sequence, the alarm image and the post-alarm sequence. Since time is a critical



factor, you can immediately examine the video image and take the appropriate action. All alarms are being stored in an easily accessible database.

## S.A. Sedni - HERNIS agent in Spain

The company was founded in November 1987 and began operations in February 1988. It initially started with only two persons with a background of over 20 years at that time in the shipbuilding and industrial business, beginning as engineers in other firms and working up to managing directors through all levels and functional areas of such firms.

At present, there are some forty persons working in the company group, mainly formed by electronic, electric, industrial, marine engineers and naval architects. The company is based on the sunny city of Alicante.

One reason of the success of the company is that they do their best to help customers with learning the system and building up the technical capacity for start up/commissioning, and at the end projecting everything with the Spanish speaking and very professional engineers.

S.A. SEDNI has very good contacts at all levels in many Spanish companies, hence the continuous increasing success.

HERNIS together with SEDNI have lately got the contracts for the IZAR LNGC series, where HERNIS 250 systems will be fitted in the five vessels. Now the most relevant goals for SEDNI are:

- Promote HERNIS for the Onshore market.
- Train engineers to give full tech/commissioning support in Spain & Portugal.

*From the left: Vicente Arteaga (Managing Director), Teresa Gómez (Financial Manager), José Miguel García (Manager of Electronic System Department), Ángel Cano (Electronic System Department Engineer), Iñaki Sanz (Electronic System Department Engineer), Belén Coloma (Electronic System Department Engineer)*





*Espen Christensen  
Area Sales Manager  
Norway*

## Espen Christensen Area Sales Manager Norway

Espen joined HERNIS as a service engineer in September 2000. After travelling for a few years, and having achieved excellent contact with customers in the North Sea, Espen got promoted on the 1st April. He is now the new Area Sales Manager for Norway. Prior to his work at HERNIS Espen worked for PGS Exploration for 8 years handling instrumentations at one of their seismic vessels. Espen loves music, reads a lot of books and enjoys restoring his vintage car. He is happily married to Eli Ann and the proud father to Emmy Beate.

## HERNIS activity plan May – June 2003

Date	Venue, stand/booth no.
May 5 <sup>th</sup> - 8 <sup>th</sup>	OTC Houston
May 13 <sup>th</sup> - 15 <sup>th</sup>	Cruise & Ferry London
June 3 <sup>th</sup> - 6 <sup>th</sup>	Norshipping, Oslo
June 4 <sup>th</sup> - 6 <sup>th</sup>	Brasil Offshore, Macae
June 5 <sup>th</sup> - 8 <sup>th</sup>	Agent Seminar Arendal
June 9 <sup>th</sup> - 12 <sup>th</sup>	MEOS Bahrain



## Australian Oil and Gas Exhibition in Perth 19th – 21st March 2003

HERNIS exhibited with their agent Western Advance during the Australian Oil and Gas Exhibition in Perth (AOG). The exhibition turned out to be a good event where well known customers came by for small talk and an update on "whats new". A lot of new contacts were also made. All in all a very good event for HERNIS and their agent.

*The AOG Exhibition turned out to be a good venue for HERNIS and their Australian agent Western Advance Pty*

*HERNIS Scan Systems AS manufactures CCTV (closed circuit television) systems for marine, offshore and petroleum related installations onshore. Established to produce CCTV systems for marine environments in 1982, the company is wholly owned by Vislink Plc., which is listed on the London Stock Exchange. HERNIS has appointed agents around the world.*

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